

Clean Energy Works: Portland – Qualified Training Program Criteria



IN COLLABORATION WITH



Portland General Electric



The City of Portland, Energy Trust of Oregon, and the stakeholder Evaluation and Implementation Committee will identify a pool of qualified training programs to train workers to support the CEWP Pilot and the goals of the Community Workforce Agreement.

To be designated as a qualified training program, applicants will provide trainees with a high quality weatherization training based on curriculum developed by an accredited organization to meet United States Department of Energy standards, and have articulated relationships, processes and strategies designed to create a pipeline of opportunities from recruitment, to placement, through retention of targeted population groups outlined in the CWA. In addition to meeting work competency requirements, designated Training Programs must be able to demonstrate compliance with the below listed criteria;

Criteria	Evaluation
Have at least three defined partnerships with state recognized pre-apprenticeship programs or signatory community organizations that serve historically disadvantaged or underrepresented populations, including women, and people of color.	Organizations can submit copies of MOU's or partnership agreement letters detailing the partnerships in place, the referral and recruitment process, and the roles and responsibilities of each organization as it relates to the agreement and or partnership
In conjunction with those partner organizations, ensure that a majority of its trainees are women, people of color, residents of low-income communities, or other disadvantaged or underrepresented people	Organizations can provide a copy of an articulated recruitment plan, listing the process, plans and strategies as they relate to accomplishing these goals, submissions can also include outreach materials, lists of recruitment partners and training schedules
Offer the following to assure retention of participants in the program and in weatherization careers Mentoring Follow-up monitoring Other support as available	Submission may include historical data as well as an articulated plan for accomplishing this goal as it relates to each identified area and the targeted participants
Demonstrate a track record of graduating and placing trainees from underrepresented communities in construction careers	Submission may include historical data as well as an articulated plan for accomplishing this goal as it relates to the targeted participants
Demonstrate the ability to provide reports for all the above elements, as well as demographics, total trained, placement and retention rates, etc. on a quarterly basis as well as a system for taking corrective actions in order to meet goals of Community Workforce Agreement	Submissions must include a report template, a description of the process and contact responsible for report and communication of progress

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In order to be designated a Qualified Training Program for Clean Energy Works: Portland under the Community Workforce Agreement, participating training programs must ensure that their trainees are able to demonstrate the following Core Competencies for the delivery of effective weatherization services

Weatherization Tech / Installer – Identified Skill Standards

The following Skill Standards must be addressed by the applicant in order to be designated a qualified training program. Skill Standards have been identified as Demonstrated, Required, and Preferred. Training programs need either to have the students **D**emonstrate the skill, or are **R**equired to introduce the skill to students, or it is **P**referred that they introduce/teach the skill as part of their weatherization program offering.

D,R,
P

1. Communicate effectively with management and co-workers:

Understand and follow instructions	D
Give or pass on instructions as necessary	D
Communicate with co-workers in a manner conducive to a safe and efficient completion of the assigned task(s)	R
Work as a team, each person responsible for their part	D
Understand and read blue prints	P
Understand and follow directions on labels of materials and equipment	D
Understand and use manufacturers' manuals materials	D

2. Have the Physical Ability to perform jobsite activities associated with weatherization installation:

Lift a minimum of 50 lbs.	D
Ability to work in tight spaces such as attics or crawl spaces	D
Remain standing or walking for long periods of time	D

3. Have an understanding of basic construction math:

Basic addition, subtraction, multiplication and/or division for calculating sizes and/or timings	R
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4. Have an understanding of the importance of working safely:

Obey all federal, state, and local safety regulations for Weatherization Installation	D
Heed all safety warnings found in the manufacturer's manual or products	D
Understand and comply with manufacturers and industry safety standards around ladder, scaffolding, safety harness, and other height-related safety	D
Awareness of carbon monoxide and combustion safety	R
Have knowledge of cleanup procedures after application of different insulation materials	D

5. Have an understanding of the activities involved in the weatherization process:

Have knowledge of R value rating system	R
Be mechanically inclined	D
Understand different insulation materials	R

6. Have an understanding of the activities involved in the Weatherization Installation Basic Science concepts for Energy Conservation Theory:

Understand principals of Air Leakage	R
Know how weatherization may effect indoor air pollution and moisture levels	R
Understand concept of reducing Heat Loss	R
Understand concepts for Reducing Energy Usage	R

7. Have an understanding of the activities involved in the Weatherization Installation Basic Science concepts for Energy Systems:

Understand hot water systems	P
Understand ventilation systems	R
Understand A/C systems	P
Have knowledge of Heating systems	P
Have Knowledge of Lighting systems	P

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8. Have Air Sealing skills:	
Understand proper material selection based on location of leakage areas	R
Have knowledge of Minimum ventilation rates	P
Demonstrate ability to use blower door and infra-red camera to locate leakage sites within a building.	P
Demonstrate ability to seal attic floor bypasses at penetration points (at pipes, wiring, etc.)	D
Demonstrate the ability to seal penetration leaks for plumbing, electrical wiring, vents & ducts, soffits and balloon walls	D
Demonstrate ability to seal leaks in knee-walls and finished attic spaces	D
Demonstrate ability to seal basement band (rim) joists	D
Demonstrate ability to properly apply caulk and spray foam insulation, foam board, drywall, plywood, flashing and cement	D
Demonstrate ability to identify, select, and install weather-stripping on door, windows, and attic hatches	D
Demonstrate ability to cut glass and replace broken window panes	N/A
Demonstrate ability to repair plaster and drywall	R
Demonstrate ability to modify or install mechanical ventilation ducts	D
9. Have Duct Sealing skills:	
Demonstrate ability to properly seal duct connections with mastic and fiberglass mesh tape or other approved material	D
Repair or modify duct systems as specified in a work order	R
Should be able to identify improper ductwork	R
10. Have Insulation expertise:	
Possess working knowledge of properties and appropriate application of different insulation materials	R
Possess working knowledge of potential hazards of insulating around knob-and-tube wiring	R
Demonstrate ability to access closed wall cavities and properly install dense packed cellulose, fiberglass or foam wall insulation including removing and replacing siding	D
Demonstrate ability to install blown-in and/or batt insulation, as well as foamboard and spray on foam	D
Demonstrate ability to install blown-in insulation in a floor	P
Demonstrate ability to install batt insulation in a floor	D
Demonstrate ability to install water heater blankets	N/A
Demonstrate ability to install insulation on ducts, hydronic distribution pipes, and domestic hot water pipes	D
Demonstrate ability to safely operate and properly maintain insulation blowing machines and generators	D
11. Understand Base-Load Measures:	
Demonstrate ability to replace incandescent light bulbs with compact fluorescent lamps while maintaining or improving lighting levels	R
How to insulate around recessed lights	D
Demonstrate ability to install low-flow shower heads and faucet aerators	R
Knowledge to assess the condition of existing faucets and pipes	R
Designated Weatherization Installer Programs will also be required to provide:	
Life and Employability Skills training	
General Construction Training: <ul style="list-style-type: none"> • Basic Construction Skills • Tool Identification and Use • Construction Math 	
Safety and Environmental Hazards Training: <ul style="list-style-type: none"> • Asbestos • Lead Renovator • Avian, Bat and Rodent Feces • Mold • OSHA 10 Hour Certification 	